## Amendments to the Claims:

This listing of claims will replace all prior versions and listings. Listing of Claims:

Claims 1-20. (Canceled).

- Claim 21. (Currently amended) A kit for carrying out a method as claimed in any of the preceding claims of detection of a target nucleotide sequence in a nucleic acid molecule which comprises:
- (a) <u>an</u> oligonucleotide <u>probes</u> <u>probe</u> capable of binding to <u>a</u> target nucleic acid <u>molecules</u> <u>molecule</u> containing <u>the</u> target nucleotide <u>sequences</u> <u>sequence</u>;
  - (b) means for selective labelling of the oligonucleotide probes probe; and
- (c) <u>a nucleotide sequences sequence</u> complementary to the oligonucleotide <del>probes, preferably immobilised on a solid support</del> <u>probe</u>.
- Claim 22 (new) A kit as claimed in claim 21 wherein the nucleotide sequence of (c) is fully complementary to the oligonucleotide probe.
- Claim 23 (new) A kit as claimed in claim 21 wherein the oligonucleotide probe is 20 to 30 nucleotides in length.
- Claim 24 (new) A kit as claimed in claim 21 wherein the means (b) for selective labelling of the oligonucleotide probe provides for incorporation of a labelled nucleotide.
- Claim 25 (new) A kit as claimed in claim 24 wherein means (b) for selective labelling of the oligonucleotide probe comprises a labelled nucleotide.
- Claim 26 (new) A kit as claimed in claim 25 wherein the labelled nucleotide is a labelled dideoxynucleotide.

Claim 27 (new) A kit as claimed in claim 24 wherein the means for selective labelling of the oligonucleotide probe comprises one or more labelled dideoxynucleotides and one or more unlabelled dideoxynucleotides.

Claim 28 (new) A kit as claimed in claim 27 wherein the means for selective labelling of the oligonucleotide probes comprises one labelled dideoxynucleotide and three unlabelled dideoxynucleotides.

Claim 29 (new) A kit as claimed in claim 21 wherein the oligonucleotide probe is designed with one or more mismatches at the 3'-end to non-target nucleotide sequences.

Claim 30 (new) A kit as claimed in claim 21 wherein the sequence complementary to the labelled oligonucleotide is immobilised on a solid support.

Claim 31 (new) A kit as claimed in claim 30 wherein the solid support is a membrane strip or nucleic acid chip.

Claim 32 (new) A kit as claimed in claim 21 further comprising (d) means to amplify the nucleic acid molecule which contains the target sequence.

Claim 33 (new) A kit as claimed in claim 32 which further comprises a competitor nucleic acid molecule for coamplification with the nucleic acid molecule which contains the target sequence.

Claim 34 (new) A kit as claimed in claim 33 wherein the competitor molecule comprises a recognition sequence which is complementary to a competitor oligonucleotide probe.

Claim 35 (new) A kit as claimed in claim 33 further comprising a competitor oligonucleotide probe.

Claim 36 (new) A kit as claimed in claim 35 wherein the competitor oligonucleotide probe

is capable of being selectively labelled after hybridisation to the competitor molecule.

Claim 37 (new) A kit as claimed in claim 36 further comprising the means to detect said labelled competitor oligonucleotide probe.

Claim 38 (new) A kit as claimed in claim 37 wherein the sequences which are complementary to the oligonucleotide probe are immobilised on a solid support in discrete, predetermined positions.

Claim 39 (new) A kit as claimed in claim 21 wherein the target nucleotide sequence is characteristic of a particular organism or group of organisms.

Claim 40 (new) A kit as claimed in claim 39 which comprises a plurality of different oligonucleotide probes, each probe species being capable of binding to a different target nucleotide sequence, each target sequence being characteristic of a particular organism or group of organisms.